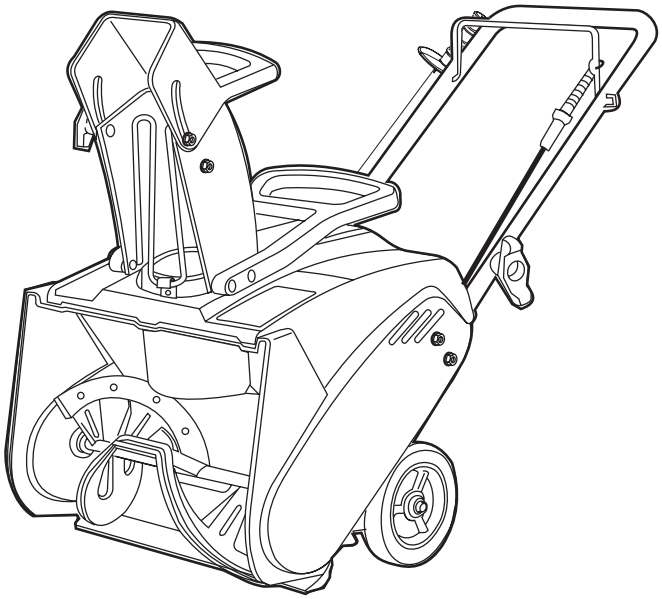
Simplicity

Parts Manual



319

Single-Stage Snowthrowers

3HP Snowthrowers

Mfg. No.	Description
1694583	319M, 3HP Manual Start Snowthrower
1694584	319E, 3HP Electric Start Snowthrower

Rev. 10/2004
TP 400-4151-00-SW-S

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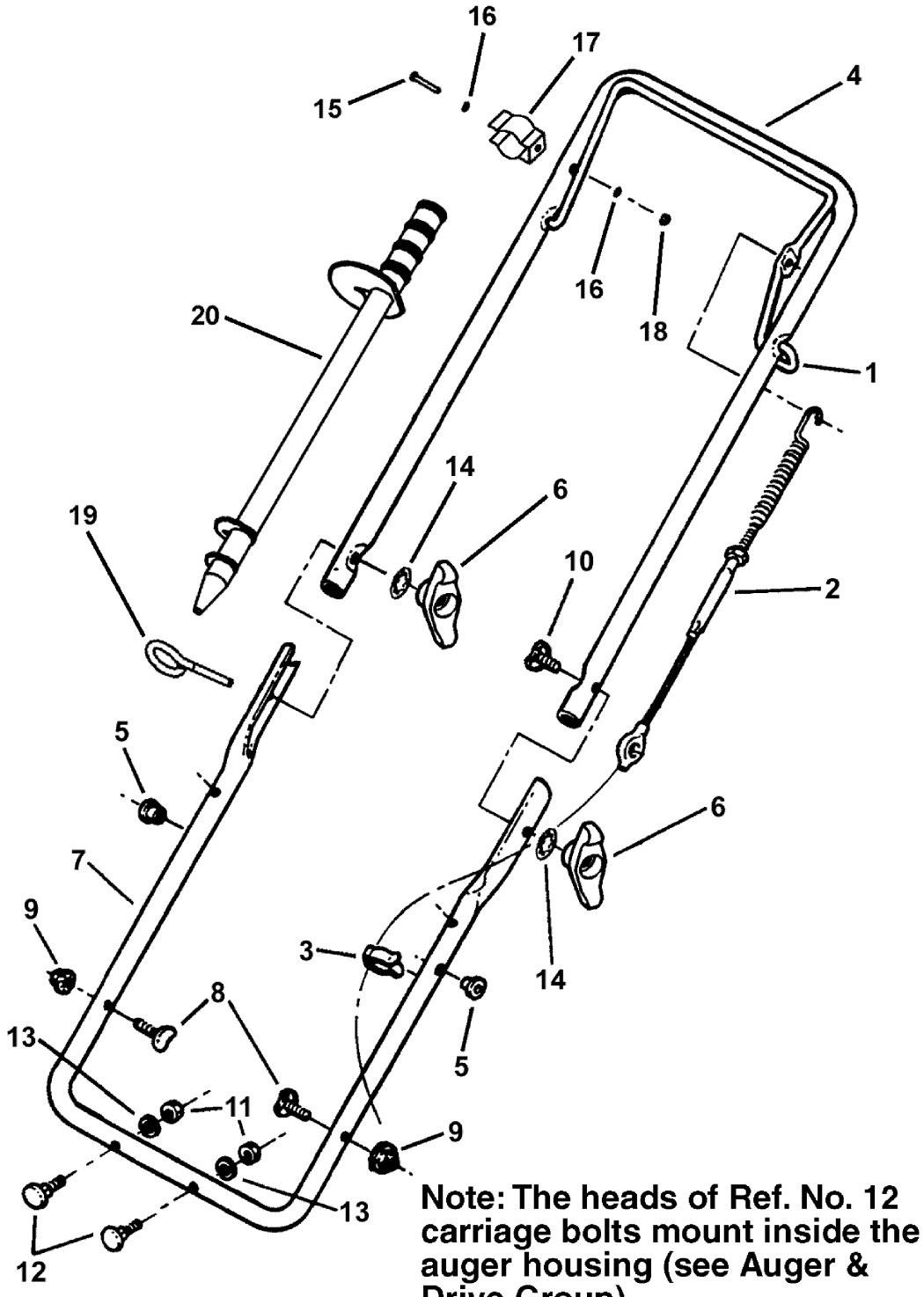
Handles Group

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

026hac



The above parts group applies to the following Mfg. Nos.:
1694583 - 319M
1694584 - 319E

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Handles Group

REF NO	PART NO.	QTY.	DESCRIPTION
1	7024645	1	BAIL, Drive Control
2	7024662	1	CABLE, Drive Control
3	7023813	1	CLIP, Wiring Harness
4	7033496	1	HANDLE, Upper
5	7091182	2	INSERT, Nylon
6	1716332	2	KNOB, 5/16-18 Wing, Black
7	7036570	1	HANDLE, Lower
8	7091190	2	BOLT, 5/16-18 x 1-3/8" Curved Head
9	1931277	2	NUT, 5/16-18 Hex Flange Lock, Grade 5
10	7091013	2	BOLT, 5/16-18 x 2" Curved Head, Grade 2
11	1917372	2	NUT, 5/16-18 Hex
12	1931337	2	CARRIAGE BOLT, 5/16-18 x 1-1/2, Grade 5
13	1917356	2	WASHER, 5/16 Split Lock
14	1923300	2	WASHER, 5/16 Internal Tooth Lock
15	7091757	1	SCREW, Hex Head Cap, #10-24 x 1-1/4, Grade 5
16	7090011	2	WASHER, #10 Flat
17	7071895	1	HOLDER, Clean-Out Tool, Upper
18	7091267	1	NUT, Hex Center Lock, #10-24
19	7075342	1	HOLDER, Clean-Out Tool, Lower, 5/16-18 thread
20	7075909	1	TOOL, Clean-Out

Footnotes

The above parts group applies to the following Mfg. Nos.:
1694583 - 319M
1694584 - 319E

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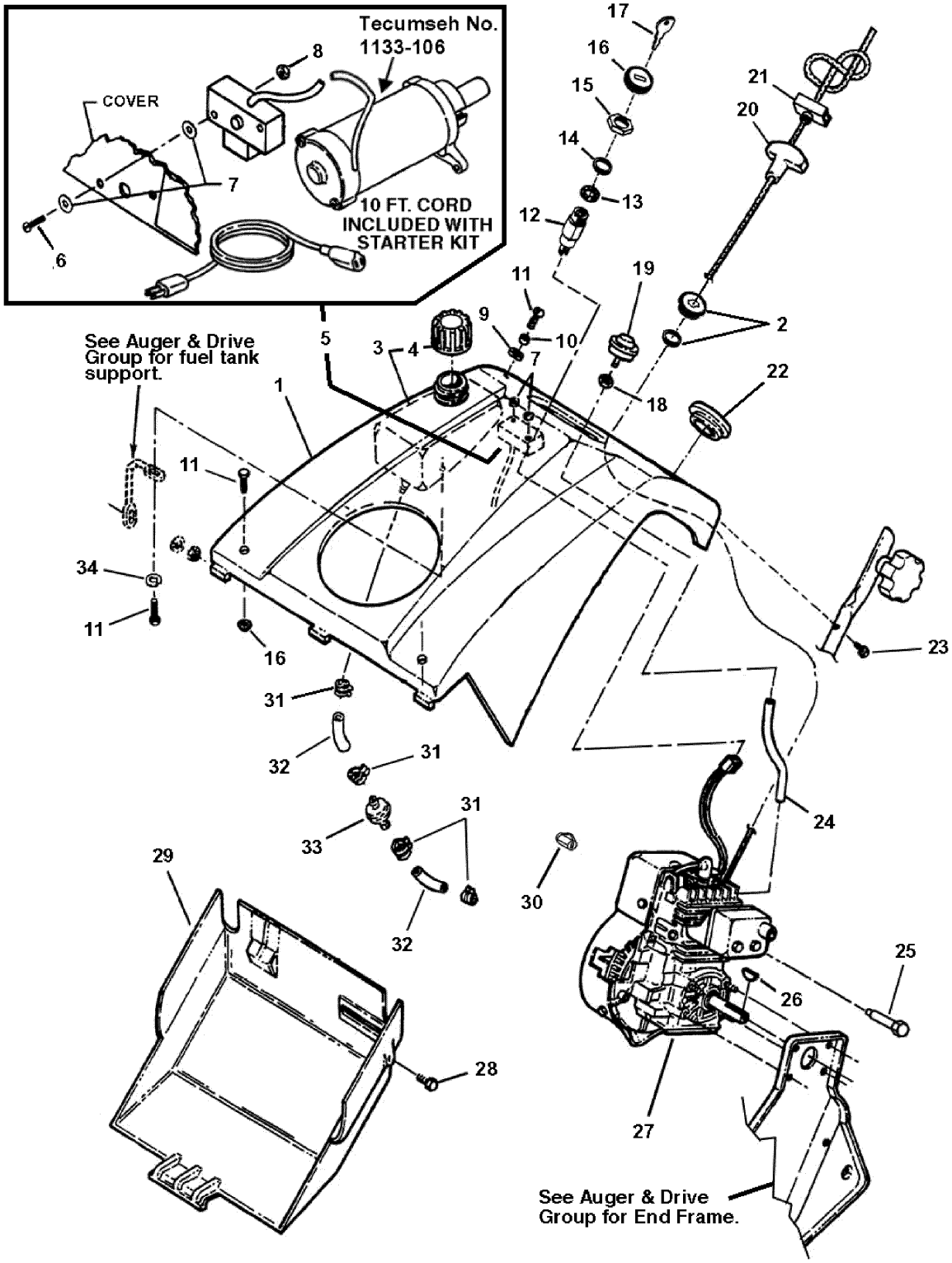
Engine Group

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

026eg



The above parts group applies to the following Mfg. Nos.:

1694583 - 319M
1694584 - 319E

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Engine Group

REF NO	PART NO.	QTY.	DESCRIPTION
1	7058013	1	COVER, Top (Includes Ref. No. 2)
2	7024636	1	EYELET, Cover, Pull Rope
3	7052974	1	ASSEMBLY, Fuel Tank (Includes Ref. No. 4)
4	7024495	1	CAP, Fuel Tank
5	*	1	KIT, Electric Start, Electric Start Models Only (Tecumseh P/N 1133-106)
6	7090866	2	SCREW, #10-24 x 1-3/4" Phillips Pan Head, Electric Start Models Only
7	7090010	4	WASHER, #10 Flat, Electric Start Models Only
8	7090623	2	NUT, #10-24 Hex Flange Lock, Electric Start Models Only
9	7027910	1	ISOLATOR, Fuel Tank/Cover
10	7027911	1	SPACER
11	1923341	4	CAPSCREW, 1/4-20 x 3/4" Hex Head, Grade 5
12	1664804	1	SWITCH, Ignition
13	1960547	1	WASHER, 5/8 Internal Tooth Lock
14	1960547	1	WASHER, 5/8 Internal Tooth Lock
15	122234	1	NUT, 5/8-32 Hex
16	7023506	1	BEZEL
17	1717163	1	KEY, pair
18	1930641	1	NUT, 1/4-20 Hex Flange Lock
19	7014638	1	PRIMER
20	7025063	1	HANDLE, Pull Rope
21	7028202	1	INSERT, Starter Handle
22	7091183	1	PLUG, Hole
23	7091196	2	SCREW, #8 x 1-1/4" Hi-Lo Taptite
24	7014639	1	HOSE, Primer
25	7024640	1	MUFFLER STUD, LE319
26	910224	1	KEY, 5/32 x 5/8" Woodruff
27	*	1	ENGINE, 3HP Tecumseh, Manual Start, TH098SA-1734E
27	*	1	ENGINE, 3HP Tecumseh, Electric Start, TH098SA-1733E
28	7090913	2	SCREW, #10-24 x 1/2" Hex Washer Taptite, Torx
29	7023978	1	COVER, Bottom, Manual Start
29	7024923	1	COVER, Bottom, Electric Start
30	7028599	1	KNOB, Red
31	960112	2	CLAMP, Fuel Hose
32	1718678	2	HOSE, Fuel, 1/4 I.D. x 8-1/2" Long
33	173206	1	FILTER, In-Line
34	1916964	1	WASHER, 1/4 Split Lock

Footnotes

* See your local authorized Tecumseh dealership for parts and warranty.

The above parts group applies to the following Mfg. Nos.:

1694583 - 319M
1694584 - 319E

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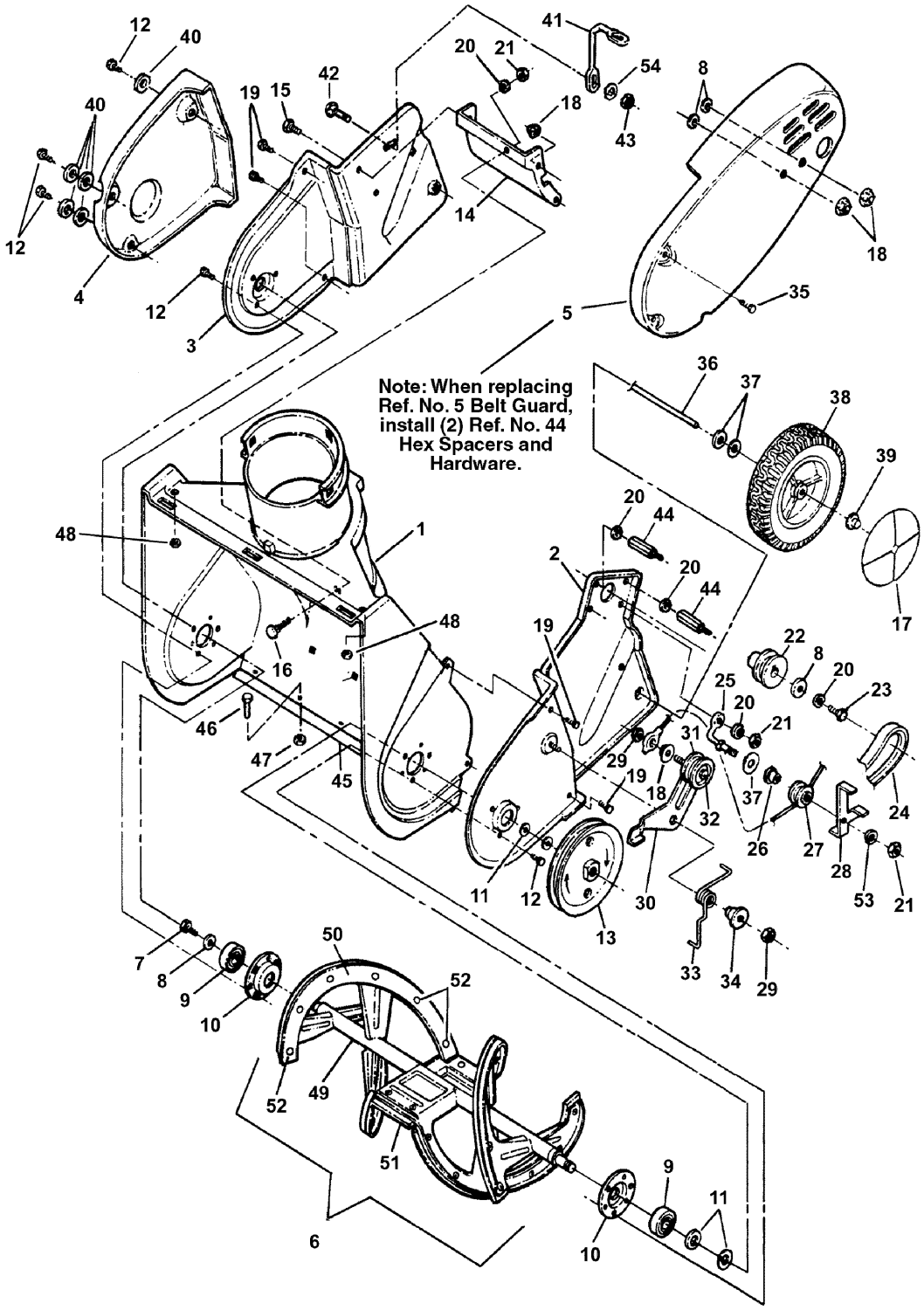
Auger & Drive Group

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

026adg



The above parts group applies to the following Mfg. Nos.:
1694583 - 319M
1694584 - 319E

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Auger & Drive Group

REF NO	PART NO.	QTY.	DESCRIPTION
1	7052969	1	ASSEMBLY, Auger Housing, Electric Start
1	7059233	1	ASSEMBLY, Auger Housing, Manual Start
2	7052964	1	ASSEMBLY, End Frame, L.H.
3	7041333	1	FRAME, End, R.H.
4	7026117	1	COVER, R.H. Side
5	7034327	1	GUARD, Belt Drive
6	7052940	1	ASSEMBLY, Auger (Includes Items 49 Thru 52)
7	1930601	1	CAPSCREW, 5/16-18 x 5/8" Taptite
8	1919381	3	WASHER, 5/16 Flat
9	7014608	2	BEARING, Ball
10	7034385	2	RETAINER, 1-3/4” O.D. Bearing
11	7010935	4	WASHER, 3/4 Flat
12	7091012	9	SCREW, #10-32 x 3/8" Taptite, Torx
13	7018635	1	PULLEY
14	7033457	1	BRACE, Engine
15	1927428	2	SCREW, 1/4-20 x 3/8" Hex Washer Taptite
16	1931333	1	BOLT, 5/16-18 x 3/4" Square Neck Carriage, Grade 5
17	7019381	2	COVER, Wheel
18	1931277	4	NUT, 5/16-18 Hex Flange Lock
19	7091081	4	SCREW, 1/4-15 x 1" Hex Washer Taptite
20	1917356	7	WASHER, 5/16
21	1917372	5	NUT, 5/16-18 Hex, Grade B or 5
22	7022179	1	PULLEY, Engine
23	1921515	1	SCREW, 5/16-24 x 3/4" Hex Head Cap, Grade 5
24	1715591	1	V-BELT, 3L, 34.27
25	7024743	1	GUIDE, Cable
26	7012306	1	BUSHING, Flange
27	7024228	1	PULLEY, Nylon
28	7033729	1	GUIDE, Belt
29	1923362	2	NUT, 5/16-18 Hex Center Lock
30	7033695	1	BRACKET, Idler Pivot
31	7024626	1	PULLEY, Idler
32	1922127	1	SCREW, 5/16-18 x 1-3/4" Hex Cap, Grade 5
33	7024621	1	SPRING, Idler Torsion
34	7024620	1	BUSHING, Pivot
35	7091195	3	SCREW, #10-16 x 3/4" Pan Head Taptite
36	7033692	1	AXLE, 3/8" Diameter Wheel
37	7014098	4	WASHER, 3/8 Flat
38	1716607	2	WHEEL, 7”
39	1720458	2	NUT, 3/8” Push
40	7090010	5	WASHER, #10 Flat
41	7024852	1	SUPPORT, Fuel Tank

Footnotes

The above parts group applies to the following Mfg. Nos.:

1694583 - 319M
1694584 - 319E

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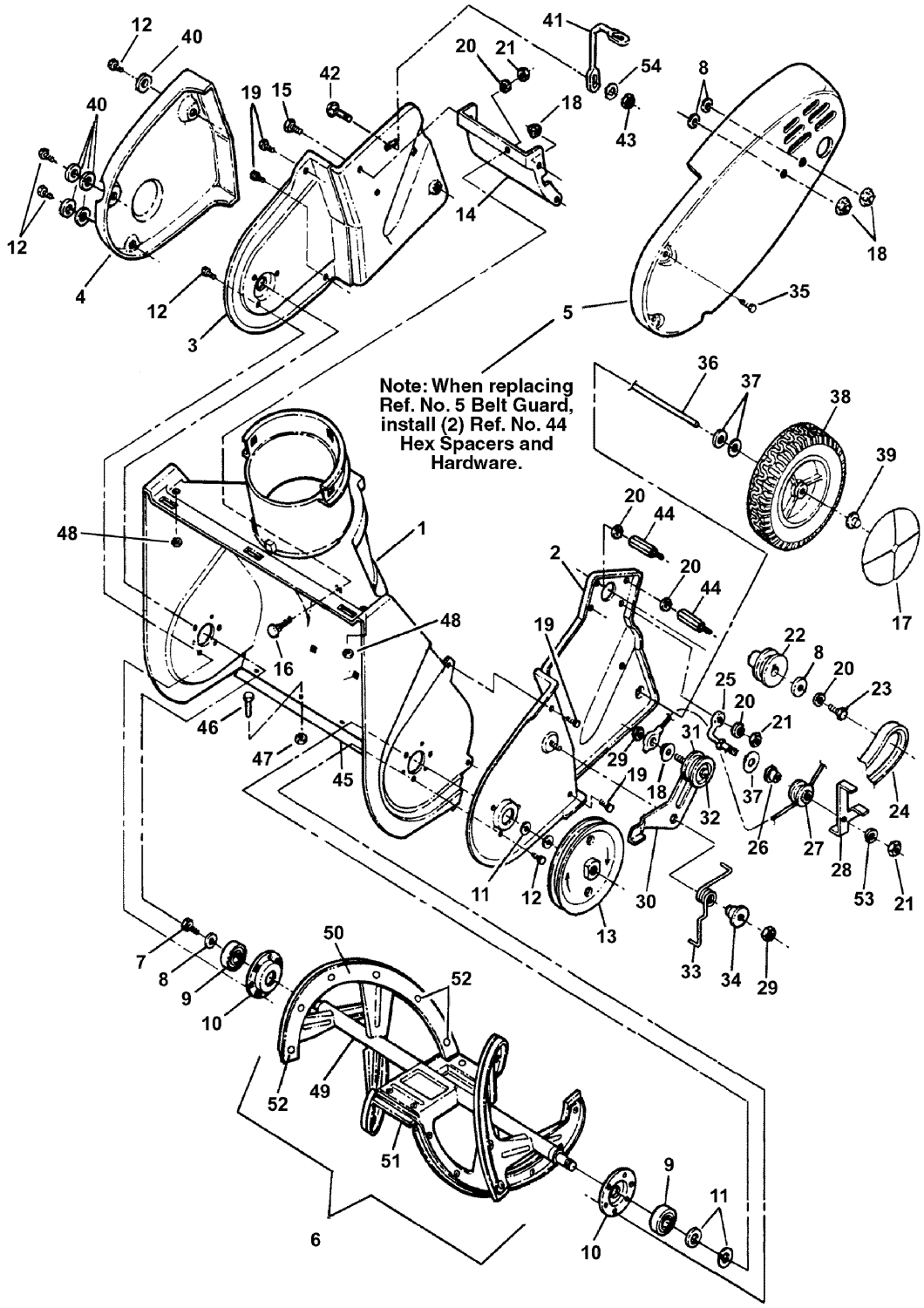
Auger & Drive Group

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

026adg



The above parts group applies to the following Mfg. Nos.:
1694583 - 319M
1694584 - 319E

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Auger & Drive Group

REF NO	PART NO.	QTY.	DESCRIPTION
42	1960252	1	BOLT, 1/4-20 x 5/8" Short Neck Carriage, Grade 5
43	1923358	1	NUT, 1/4-20 Hex, Nyloc
44	7027925	2	SPACER, Hex, 3.69" Long
45	7035948	1	BLADE, Scraper
46	7091148	4	SCREW, 1/4-20 x 1/2" Machine
47	1923358	4	NUT, 1/4-20 Hex Center Lock, Grade B or 5
48	1923358	2	NUT, 1/4-20 Hex Center Lock
49	7047025	1	STRUCTURE, Auger
50	7029565	4	SHOE, Flite
51	7014612	2	SHOE, Center Flite
52	1929477	24	CAPSCREW, #10-24 x 11/2" Hex Washer Taptite Sems
53	1923300	1	WASHER, 5/16 Internal Tooth Lock
54	1916964	1	WASHER, 1/4 Split Lock

Footnotes

The above parts group applies to the following Mfg. Nos.:
1694583 - 319M
1694584 - 319E

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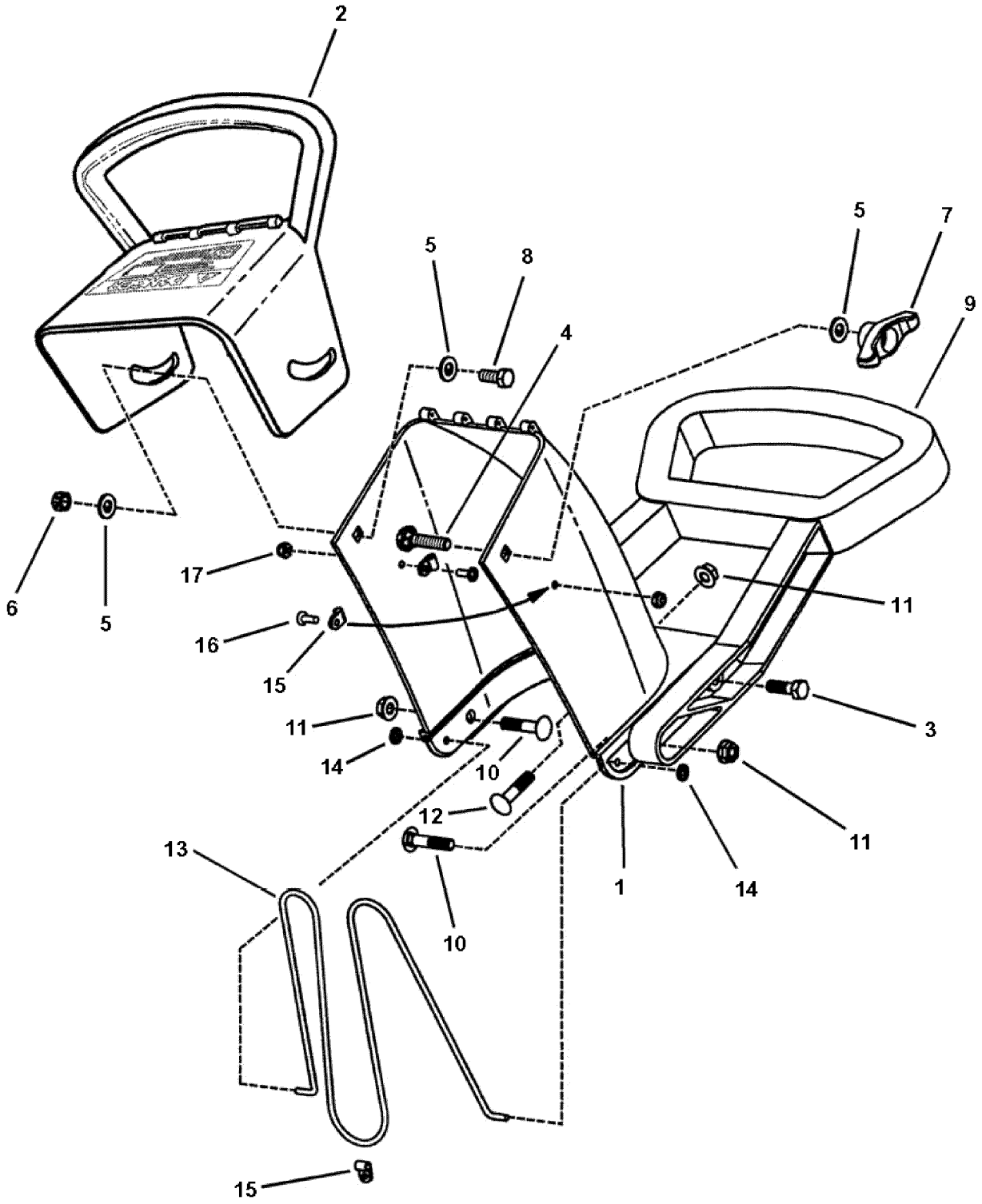
Auger Chute Group

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

026acg



The above parts group applies to the following Mfg. Nos.:

1694583 - 319M
1694584 - 319E

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Auger Chute Group

REF NO	PART NO.	QTY.	DESCRIPTION
1	7052973	1	CHUTE, Discharge, with inserts
2	7052975	1	DEFLECTOR, Chute (Includes Decal # 7024844)
3	1921332	2	SCREW, 5/16-18 x 3/4" Hex Head Cap, Grade 2
4	1931335	1	BOLT, 5/16-18 x 1" Short Neck Carriage, Grade 5
5	1918265	3	WASHER, 5/16 Flat
6	7091074	1	NUT, 5/16-24 Hex Center Lock, Grade B
7	1716632	1	KNOB, 5/16-18 Wing, Black
8	1921515	2	SCREW, 5/16-24 x 3/4" Hex Head Cap, Grade 5
9	7046340	1	HANDLE, Chute Control
10	1960655	2	CARRIAGE BOLT, 5/16-18 x 1-1/2”
11	1931277	3	NUT, 5/16-18 Hex Flange Lock, Grade 5
12	1931333	1	BOLT, 5/16-18 x 3/4" Short Neck Carriage, Grade 5
13	7019692	1	WIRE, Safety
14	1960521	1	FASTENER, Push On .156 Internal Diameter
15	7074198	3	CLIP, Guard, Tinnerman #C2980
16	7092077	3	SCREW, #8-32 x 1/2 Pan Head Cross Recess
17	7092078	3	NUT, #8-32 Hex, with free spinning external lock washer

Footnotes

The above parts group applies to the following Mfg. Nos.:
1694583 - 319M
1694584 - 319E

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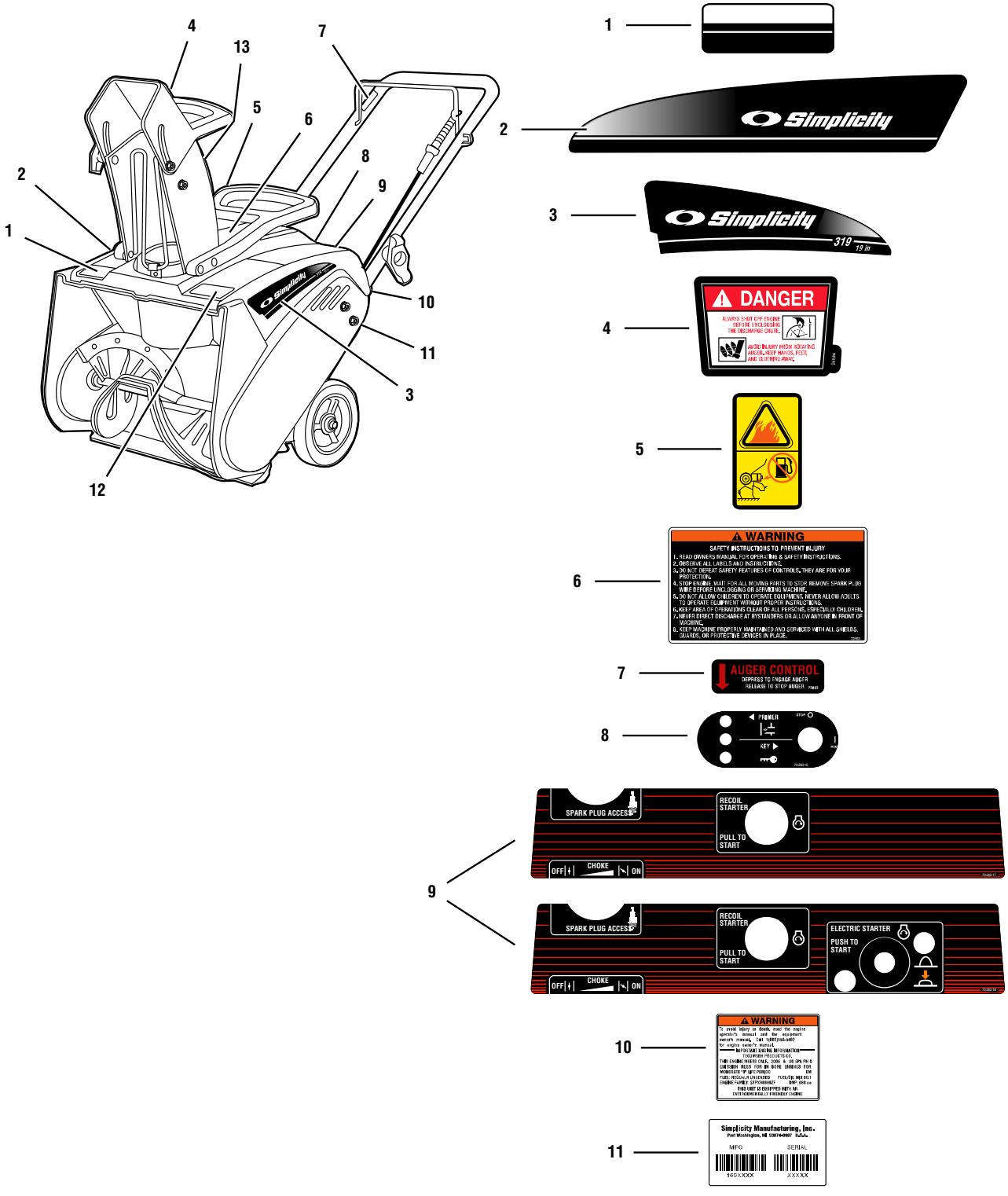
Decals Group

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

026dc1



The above parts group applies to the following Mfg. Nos.:

1694583 - 319M

1694584 - 319E

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Decals Group

REF NO	PART NO.	QTY.	DESCRIPTION
1	7028004	1	DECAL, Top Cover, Front
2	7024565	1	DECAL, Top Cover, Right Hand
3	7026241	1	DECAL, Top Cover, Left Hand
4	7024844	1	DECAL, Danger Chute Deflector
4	7028700	1	DECAL, Danger Chute Deflector (CE)
5	7073844	1	DECAL, Fuel Safety
6	7073461	1	DECAL, Safety Instructions
7	7072883	1	DECAL, Auger Control
8	7028288	1	DECAL, Primer Instruction, Manual Start
8	7074209	1	DECAL, Primer Instruction, Manual Start (CE)
8	7028315	1	DECAL, Primer Instruction/Key Switch, Electric Start
9	7026217	1	DECAL, Panel Instruction, Manual Start
9	7026218	1	DECAL, Panel Instruction, Electric Start
10	*	1	DECAL, Tecumseh 3HP Carb/EPA Certified
11	*	1	I.D. PLATE, Simplicity
12	1716532	1	DECAL, Danger Auger
12	7028711	1	DECAL, Danger Auger (CE)
13	7073461	1	DECAL, Safety Instructions
13	7074197	1	DECAL, Chute Safety (CE)

Footnotes

* Not a Service Part.

The above parts group applies to the following Mfg. Nos.:

1694583 - 319M
1694584 - 319E

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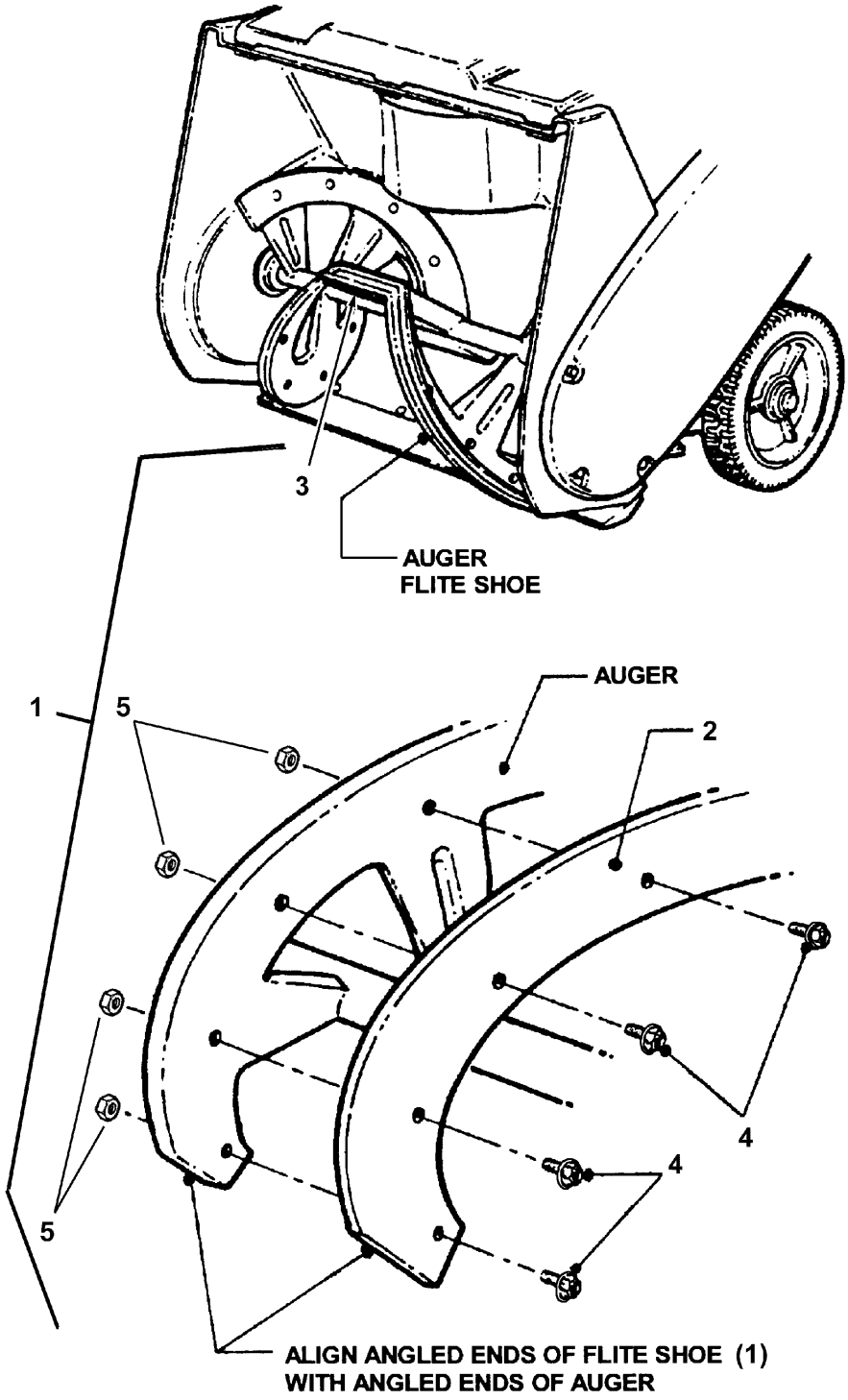
Flight Shoe Kit

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

026fskit



The above parts group applies to the following Mfg. Nos.:

1694583 - 319M
1694584 - 319E

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Flight Shoe Kit

REF NO	PART NO.	QTY.	DESCRIPTION
1	7061213	1	KTI, 19" Flight Shoe (Includes Ref. Nos. 2, 3, 4 & 5)
2	7029565	4	SHOE, 19" Flight Auger
3	7014612	2	SHOE, Fight Center
4	7091148	28	SCREW, Machine 1/4-20 x 1/2
5	1923358	28	NUT, 1/4-20 Hex Center Lock, G5

Footnotes

The above parts group applies to the following Mfg. Nos.:
1694583 - 319M
1694584 - 319E

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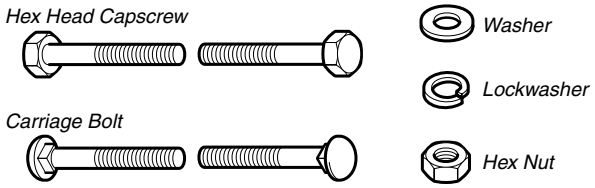
Hardware Identification & Torque Specifications

Common Hardware Types

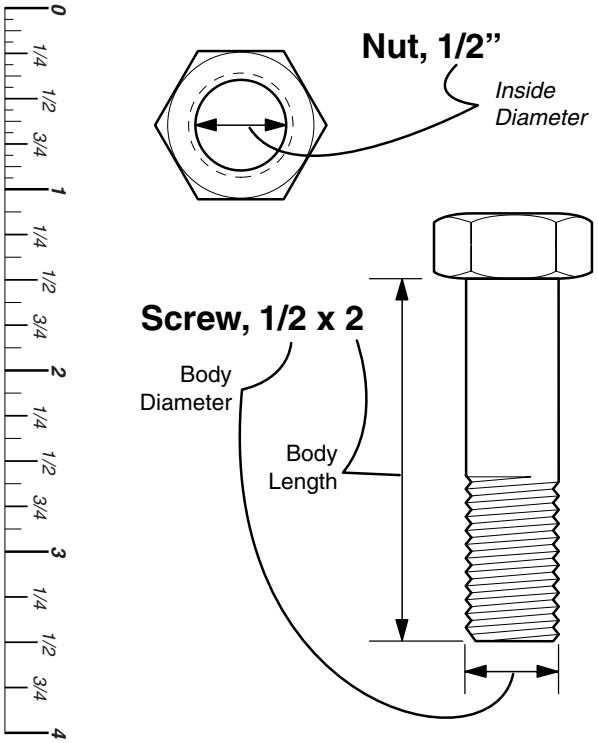


Standard Hardware Sizing

When a washer or nut is identified as **1/2"**, this is the *Nominal size*, meaning the *inside diameter* is 1/2 inch; if a second number is present it represent the *threads per inch*

When bolt or capscrew is identified as **1/2 - 16 x 2"**, this means the *Nominal size*, or *body diameter* is 1/2 inch; the second number represents the *threads per inch* (16 in this example, and the final number is the *body length* of the bolt or screw (in this example 2 inches long).

The guides and ruler furnished below are designed to help you select the appropriate hardware and tools.



Torque Specification Chart

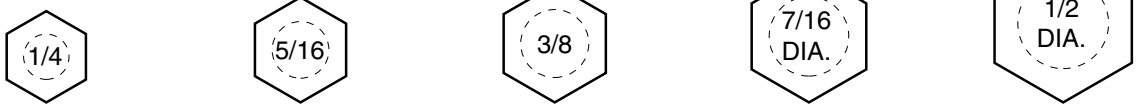
FOR STANDARD MACHINE HARDWARE (Tolerance ± 20%)

Hardware Grade	No Marks SAE Grade 2		SAE Grade 5		SAE Grade 8	
Size Of Hardware	*in/lbs* **ft/lbs**	Nm.	*in/lbs* **ft/lbs**	Nm.	**in/lbs** **ft/lbs**	Nm.
8-32	*19*	2.1	*30*	3.4	*41*	4.6
8-36	*20*	2.3	*31*	3.5	*43*	4.9
10-24	*27*	3.1	*43*	4.9	*60*	6.8
10-32	*31*	3.5	*49*	5.5	*68*	7.7
1/4-20	*66*	7.6	**8**	10.9	**12**	16.3
1/4-28	*76*	8.6	**10**	13.6	**14**	19.0
5/16-18	**11**	15.0	**17**	23.1	**25**	34.0
5/16-24	**12**	16.3	**19**	25.8	**27**	34.0
3/8-16	**20**	27.2	**30**	40.8	**45**	61.2
3/8-24	**23**	31.3	**35**	47.6	**50**	68.0
7/16-14	**30**	40.8	**50**	68.0	**70**	95.2
7/16-20	**35**	47.6	**55**	74.8	**80**	108.8
1/2-13	**50**	68.0	**75**	102.0	**110**	149.6
1/2-20	**55**	74.8	**90**	122.4	**120**	163.2
9/16-12	**65**	88.4	**110**	149.6	**150**	204.0
9/16-18	**75**	102.0	**120**	163.2	**170**	231.2
5/8-11	**90**	122.4	**150**	204.0	**220**	299.2
5/8-18	**100**	136	**180**	244.8	**240**	326.4
3/4-10	**160**	217.6	**260**	353.6	**386**	525.0
3/4-16	**180**	244.8	**300**	408.0	**420**	571.2
7/8-9	**140**	190.4	**400**	544.0	**600**	816.0
7/8-14	**155**	210.8	**440**	598.4	**660**	897.6
1-8	**220**	299.2	**580**	788.8	**900**	1,244.0
1-12	**240**	326.4	**640**	870.4	**1,000**	1,360.0

NOTES

1. These torque values are to be used for all hardware excluding: locknuts, self-tapping screws, thread forming screws, sheet metal screws and socket head setscrews.
2. Recommended seating torque values for locknuts:
   a. for prevailing torque locknuts - use 65% of grade 5 torques.
   b. for flange whizlock nuts and screws - use 135% of grade 5 torques.
3. Unless otherwise noted on assembly drawings, all torque values must meet this specification.

Wrench & Fastener Size Guide



1/4" Bolt or Nut
Wrench—7/16"

5/16" Bolt or Nut
Wrench—1/2"

3/8" Bolt or Nut
Wrench—9/16"

7/16" Bolt or Nut
Wrench (Bolt)—5/8"
Wrench (Nut)—11/16"

1/2" Bolt or Nut
Wrench—3/4"

Simplicity

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